

AWS Databases







Today's Takeaways

- Introduction to Database
- Amazon RDS
- MySQL Workbench









What is Database?







Type of Database?

Relational/SQL

Non-Relational/NoSQL

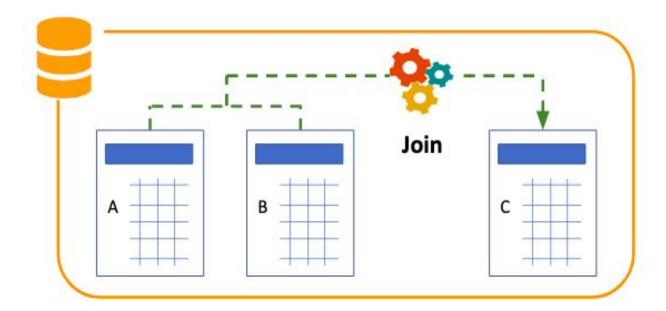


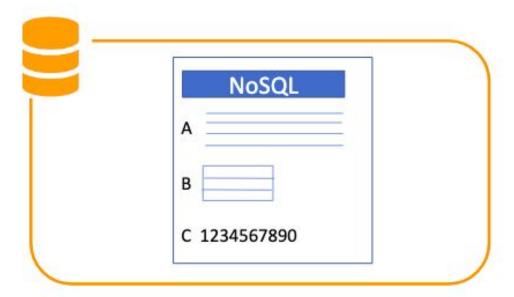


Type of Database?

Relational/SQL

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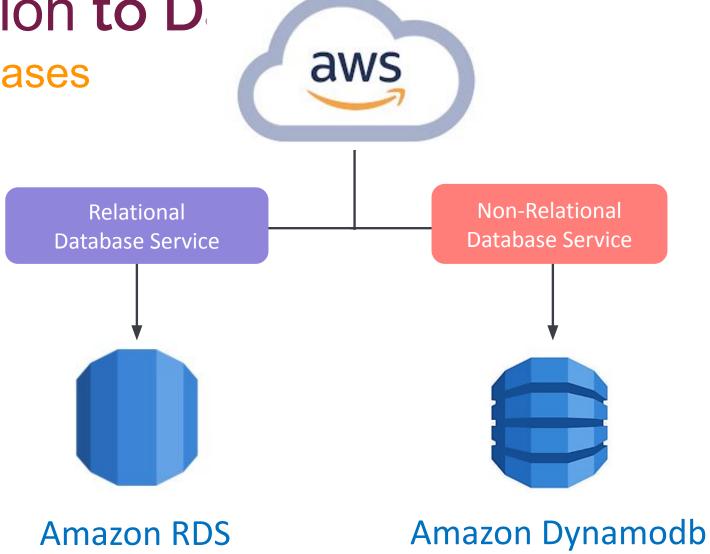






Introduction to D

AWS Databases











SQL vs. NoSQL?

SQL	NoSQL
Relational	Non-Relational
Table-based	Document-based, key-value pairs, graph databases or wide-column stores
Predefined Schema	Dynamic Schema
Uses SQL	As the name suggest, it doesn't use SQL
Used for complex queries	Used for simple queries
Available for Join function	Not available for Join function



2 Amazon RDS





What is RDS?





Basic Components







DB Instance



Storage Disk



EC2

AMI



Instance Type

t2.micro

Storage Disk/ Root Volume

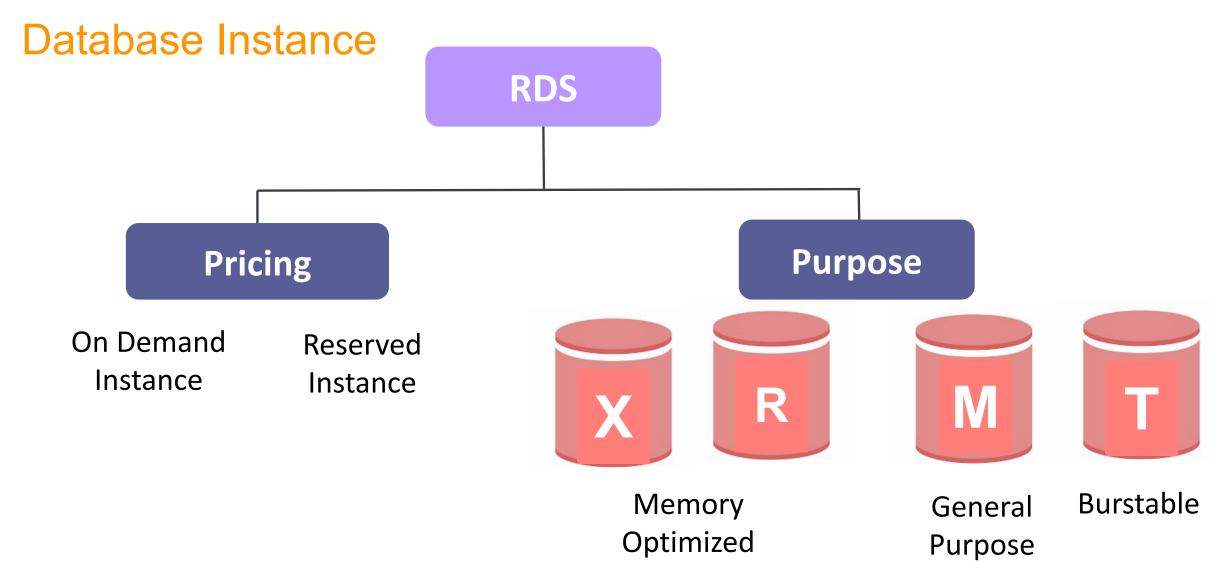


Database Engines





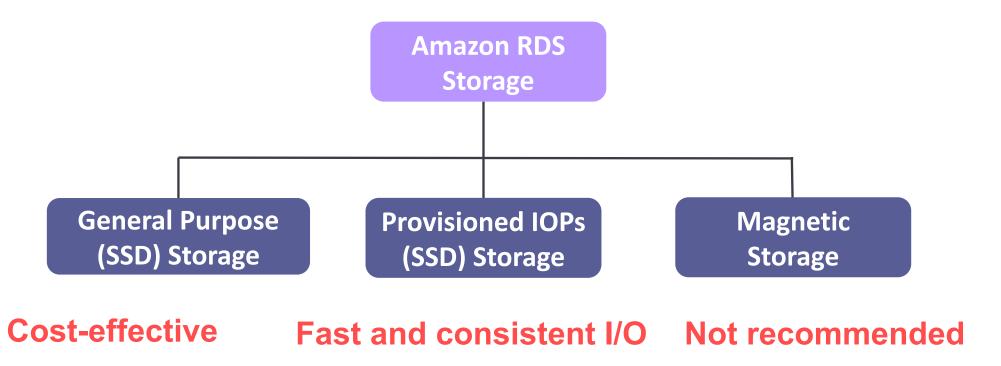








Instance Storage

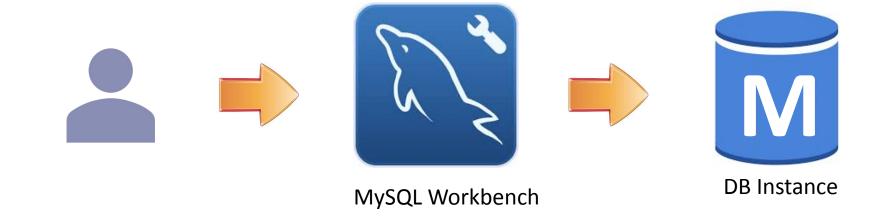


There is an important factor in the databases as much as CPU and RAM power, which is the value of IOPs of storage





MySQL Workbench

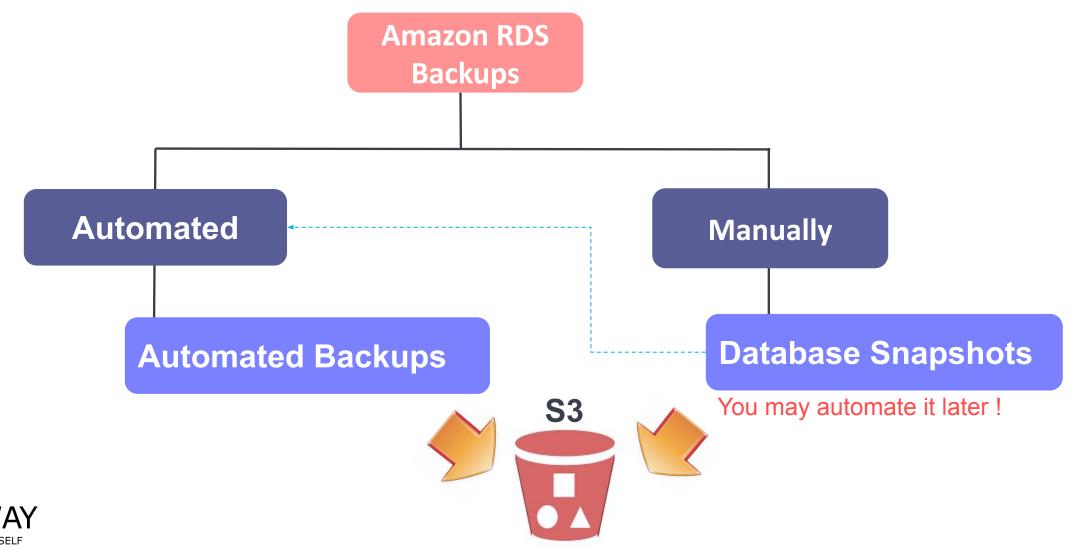


MySQL Workbench = Graphical tool for working with MySQL databases.





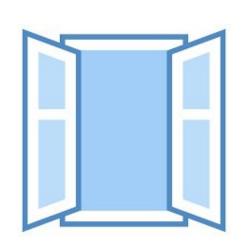
DB Instance Backups

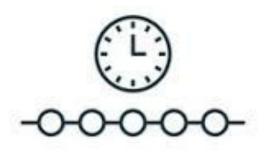




DB Instance Automated Backups







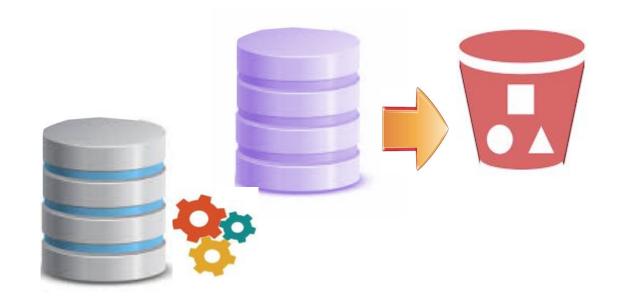
35 days



5 minutes



DB Instance Snapshot

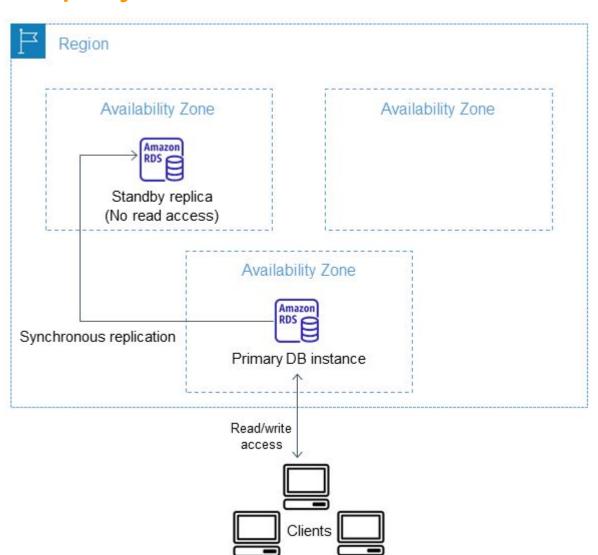






RDS Multi-AZ Deployment

Multi-AZ DB instance deployments

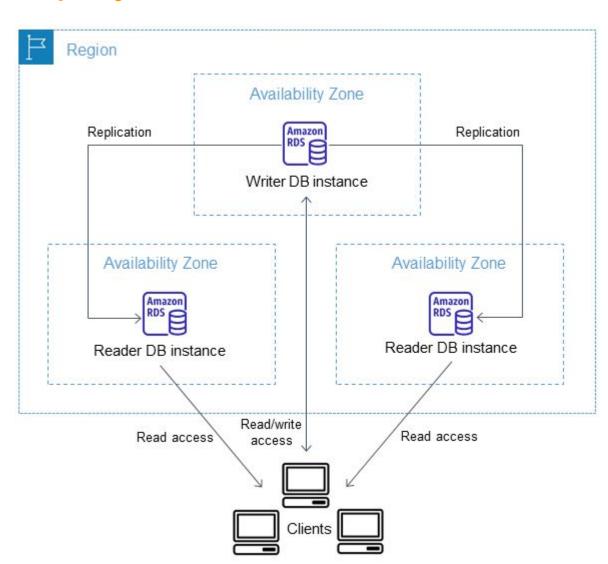




RDS Multi-AZ Deployment

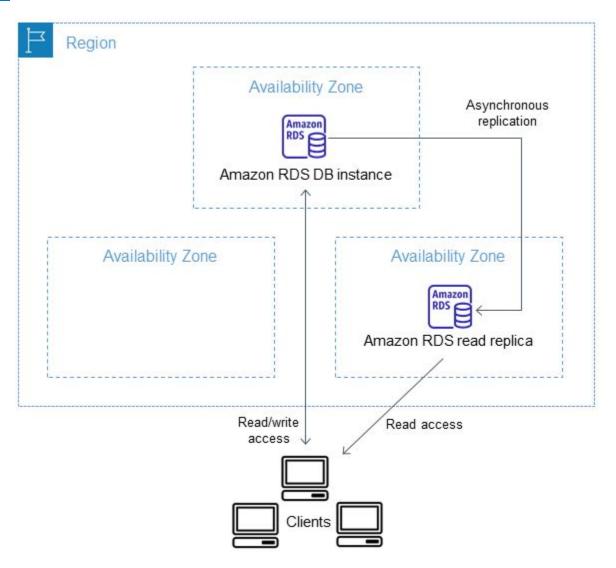
Multi-AZ DB <u>cluster</u> deployments

Only for PostgreSQL and MySQL





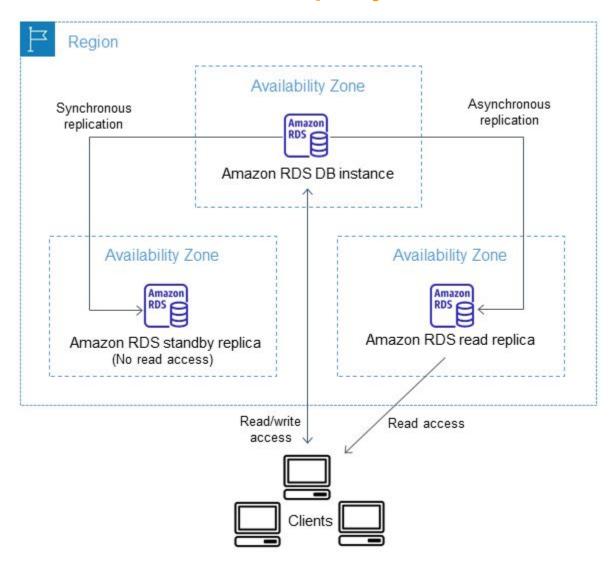
Read Replicas





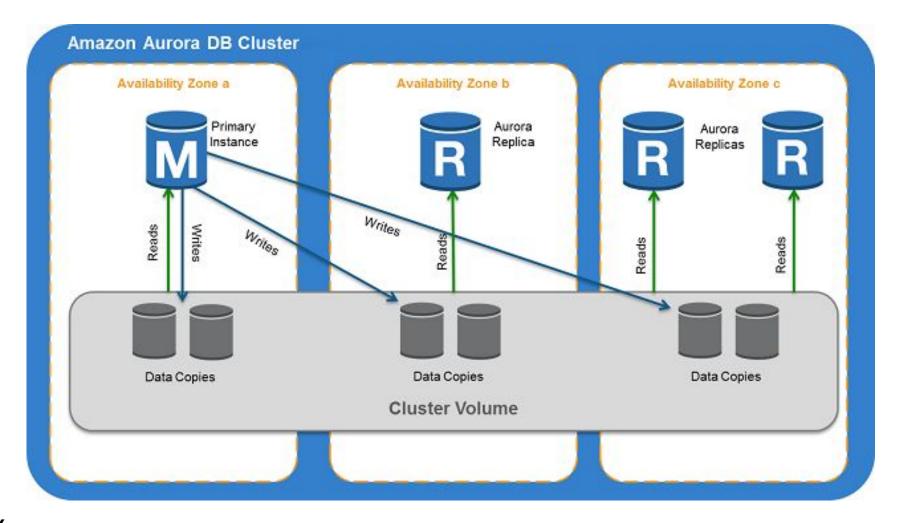


Read Replicas w/ Multi AZ Deployment





Aurora Multi-Master clusters





Let's get our hands dirty!

- Creating a RDS Instance
- Connecting DB via MySQL Workbench





THANKS! ?

Any questions?



